

Phospho-Smad2 (Ser465/467)/Smad3 (Ser423/425) (D27F4) Rabbit mAb (PE Conjugate)



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P84022, #Q15796	Entrez-Gene Id: 4088, 4087		
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized)		Dilution 1:50			
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.					
Specificity/Sensit	ivity	Phospho-Smad2 (Ser465/467)/Smad3 (Ser423/425) (D27F4) Rabbit mAb (PE Conjugate) recognizes endogenous levels of Smad2 protein when phosphorylated at Ser465 and Ser467. This antibody also recognizes endogenous levels of Smad3 protein when phosphorylated at Ser422 only or at both Ser423 and Ser425.					
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser465/467 of human Smad2 protein.					
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Smad2 (Ser465/467)/Smad3 (Ser423/425) (D27F4) Rabbit mAb #8828.					
Background		Members of the SMAD family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF-β signals from the cell surface into the nucleus. Three distinct classes of SMADs have been defined: the receptor-regulated SMADs (R-SMADs), which include SMAD1, 2, 3, 5, and 9; the common-mediator SMAD (co-SMAD), SMAD4; and the antagonistic or inhibitory SMADs (I- SMADs), SMAD6 and 7 (1-5). Activated type I receptors associate with specific R-SMADs and phosphorylate them on a conserved carboxy-terminal SSXS motif. The phosphorylated R-SMADs dissociate from the receptor and form a heteromeric complex with SMAD4, initiating translocation of the heteromeric SMAD complex to the nucleus. Once in the nucleus, SMADs recruit a variety of DNA binding proteins that function to regulate transcriptional activity (6-8).					
Background Refe	ckground References 1. Heldin, C.H. et al. (1997) Nature 390, 465-71. 2. Attisano, L. and Wrana, J.L. (1998) Curr Opin Cell Biol 10, 188-94. 3. Derynck, R. et al. (1998) Cell 95, 737-40. 4. Massagué, J. (1998) Annu Rev Biochem 67, 753-91. 5. Whitman, M. (1998) Genes Dev 12, 2445-62. 6. Wrana, J.L. (2000) Sci STKE 2000, re1. 7. Attisano, L. and Wrana, J.L. (2002) Science 296, 1646-7. 8. Moustakas, A. et al. (2001) J Cell Sci 114, 4359-69.						
Species Reactivity	y	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity I	Key	H: Human M: Mouse R: Rat Mk: Monkey					
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